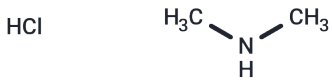
Data Sheet (Cat.No.T5309)

TargetMol

Dimethylamine hydrochloride

Chemical Properties



CAS No. :	506-59-2
Formula:	C2H8ClN
Molecular Weight:	81.54
Storage:	Powder: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Dimethylamine hydrochloride (N,N-Dimethylamine) is abundantly present in human urine. Main sources of urinary dimethylamine have been reported to include trimethylamine N-oxide, a common food component, and asymmetric dimethylarginine (ADMA), an endogenous inhibitor of nitric oxide (NO) synthesis. ADMA is excreted in the urine in part unmetabolized and in part after hydrolysis to dimethylamine by dimethylarginine dimethylaminohydrolase (DDAH).
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 45 mg/mL (551.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	12.2639 mL	61.3196 mL	122.6392 mL
5 mM	2.4528 mL	12.2639 mL	24.5278 mL
10 mM	1.2264 mL	6.132 mL	12.2639 mL
50 mM	0.2453 mL	1.2264 mL	2.4528 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mitchell SC, et al. Dimethylamine and diet. Food Chem Toxicol. 2008 May;46(5):1734-8.

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